

ABSTRACT

METHOD, SENSING DEVICE AND OPTICAL POINTING DEVICE INCLUDING A
SENSING DEVICE FOR COMPARING LIGHT INTENSITY BETWEEN PIXELS

There is described a method, a sensing device as well as an optical pointing device including a sensing device for comparing light intensity between pixels. Light intensity between pairs of pixels of a photodetector array is compared as follows. First and second output signals generated by the photosensitive elements of a first and a second pixel of each pair are integrated over time to respectively provide first and second integrated signals. Integration of the first output signal is interrupted at the end of a first time period and the resulting first integrated signal is stored. Integration of the second output signal is continued until the end of a second time period and the resulting second integrated signal is compared to the stored first integrated signal to provide an output signal representative of an edge condition between the first and second pixel.

Figure 6B